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# ADDENDUM

## FLOOD HAZARD ANALYSES

### POCASSET RIVER & MESHANTICUT BROOK CRANSTON, RHODE ISLAND

Prepared by  
CITY OF CRANSTON  
In Cooperation with  
RHODE ISLAND DEPARTMENT OF ADMINISTRATION  
STATEWIDE PLANNING PROGRAM  
UNITED STATES DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE  
Assisting the  
NORTHERN RHODE ISLAND CONSERVATION DISTRICT



December 1974

10-25 Books  
C-60

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UNITED STATES DEPARTMENT OF AGRICULTURE

SOIL CONSERVATION SERVICE

222 Quaker Lane, West Warwick, Rhode Island 02893

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July 29, 1975

TO: Holders of the Flood Hazard Analysis of the  
Pocasset River & Meshanticut Brook  
Cranston, RI

More than a year ago you received a copy of the publication entitled "Addendum - Flood Hazard Analyses of the Pocasset River & Meshanticut Brook in Cranston, RI" dated September 1973 from this office.

Last fall we located an error in the report that necessitated the enclosed addendum.

Will you please destroy or mark out in your original publication the following:

- Flood Delineation Maps: 1 through 5
- Pocasset River Flood Profile: 1 through 9
- Typical Valley Cross Section, Pocasset River:  
Sheets 1 & 3

We hope this error has not inconvenienced you.

Sincerely,

*Austin L. Patrick, Jr.*  
Austin L. Patrick, Jr.  
State Conservationist

Enclosure



## APPENDIX A

### BENCH MARK DESCRIPTIONS

#### Pocasset River

BM B-24	C & GS bench on the Pawtuxet River bridge on Route 95. Elevation 33.41
BM 59	Top of downstream southwest corner of Pontiac Avenue bridge headwall over the Pocasset River. Elevation 26.57.
TBM-11	Nail in shiner in the base of pole #35 on the north edge of Garden City Drive, 200 feet west of Pontiac Avenue. Elevation 30.90.
BM - 21	Top of curb chisel square at road edge opposite the south- west corner of Reservoir Avenue bridge headwall 0.6 foot above the road surface. Elevation 33.44.
TBH - H	On the south side of Park Avenue bridge, chisel square top of granite curb painted red, approximate centerline of bridge. Elevation 48.03.
BM 256	Chisel square top of the southwest corner of stone headwall on the Cranston Street bridge over the Pocasset River. Elevation 60.66.
TP-1	Chisel square top of upstream northeast corner of Route #14 (Plainfield Street) bridge headwall over the Pocasset River. Elevation 84.20.

## BENCH MARK DESCRIPTIONS


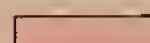


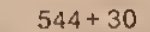
### Meshanticut Brook

- BM J-30      Bronze disc top of northeast abutment on the north side of Interstate #295 over the Penn. Central R.R. & Providence Street overpass, Warwick, R.I.  
Elevation 69.58
- BM L-30      Bronze disc in the top of the wingwall at the south corner of the northbound lane of the overpass over Wilbur Avenue 25.5 feet southeast of the center lane of the northbound land of Interstate #295.  
Elevation 68.14.
- BM M-30      Bronze disc set on the top of south end of the east head-wall for a 10 foot box culvert under the southbound lane of Interstate #295. 0.1 mile north of state highway #37 overpass.  
Elevation 52.98.
- TP-9          Top of granite bound on the north side of Highland Street 25 feet west of road leading over Dam at Meshanticut State Park Pond outlet approximately 40 feet south of stream, 12 feet north from north edge of Highland Street painted orange.  
Elevation 58.62.
- TBM #10      Top of upstream northwest corner of Scituate Avenue box culvert headwall over Meshanticut Brook.  
Elevation 119.96.





LEGEND

-  Stream Channel
-  100-year flood area
-  10-year flood area
-  30.0 100-year elevation
-  544+30 Cross section

COLONIAL AVENUE

PONTIAC AVENUE

PENN CENTRAL R.R.

KENT PROVIDENCE

PAWTUCKET

RIVER

MATCH LINE SHEET 2

LAWNACRE DRIVE

GARDEN CITY DRIVE

START OF STUDY AREA



SOURCE: Semi-Controlled Mosaic prepared from USDA-ASCS Aerial photography flown 1970

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POCASSET RIVER - FLOOD HAZARD ANALYSIS  
TOWN OF CRANSTON  
PROVIDENCE COUNTY, RHODE ISLAND

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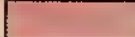

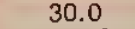
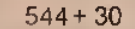
SHEET 1

CGDA-RCS-WPATTENHILL, MD. 1974





LEGEND

-  Stream Channel
-  100-year flood area
-  10-year flood area
-  100-year elevation
-  Cross section



SOURCE: Semi-Controlled Mosaic prepared from USDA-ASCS  
Aerial photography flown 1970

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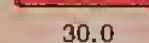
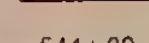
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USDA-SCS-WATERVILLE, MD. 1979



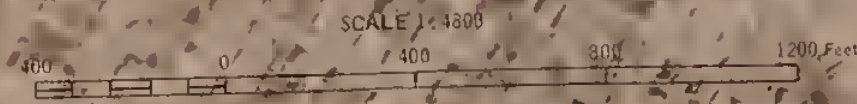


LEGEND

-  Stream Channel
-  100-year flood area
-  10-year flood area
-  30.0 100-year elevation
-  544 + 30 Cross section



SOURCE: Semi-Controlled Mosaic prepared from USDA-ASCS  
Aerial photography flown 1970








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DECEMBER 1974  
SHEET 3

USDA-GCS-HYATTEVILLE, MD. 1474





LEGEND

-  Stream Channel
-  100-year flood area
-  10-year flood area
-  30.0 100-year elevation
-  544+30 Cross section

SCALE 1" = 480'

0 400 800 1200 Feet

PLAINFIELD PIKE

END OF STUDY AREA  
319+04

MATCH LINE SHEET 5

SOURCE: Semi-Controlled Mosaic prepared from USDA-ASCS  
Aerial photography flown 1970

FARMINGTON AVENUE

399+25

DYER AVENUE

OXFORD STREET

MATCH LINE SHEET 3

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PROVIDENCE COUNTY, RHODE ISLAND

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SHEET 4

USDA SOIL CONSERVATION SERVICE, WASHINGTON, D.C. 20250





MATCH LINE SHEET 4



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SHEET 5

USDP RCR-HPA175V11E, MD, 1979





ELEVATION - FEET - MSL

30

25

20

15

10

5

560+00

570+00

580+00

590+00

600+00

STATIONING IN FEET

BRIDGE DECK

LOW POINT IN SECTION

LOW CHORD

GARDEN CITY BOULEVARD

PONTIAC AVENUE

RAILROAD BRIDGE

500 YEAR FLOOD  
100 YEAR FLOOD  
10 YEAR FLOOD

STREAM BOTTOM

FLOOD PROFILES	
POCASSET RIVER	
TOWN OF CRANSTON	
PROVIDENCE COUNTY, RHODE ISLAND	
U. S. DEPARTMENT OF AGRICULTURE	
SOIL CONSERVATION SERVICE	
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Sheet No. 1 of 11	
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ELEVATION - FEET - MSL

RESERVOIR AVENUE

35

30

25

20

15

500-YEAR FLOOD

100-YEAR FLOOD

10-YEAR FLOOD

STREAM BOTTOM

530+00

540+00

550+00

560+00

BRIDGE DECK

LOW POINT IN SECTION

LOW CHORD

STATIONING IN FEET

FLOOD PROFILES  
POCASSET RIVER  
TOWN OF CRANSTON  
PROVIDENCE COUNTY, RHODE ISLAND  
U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

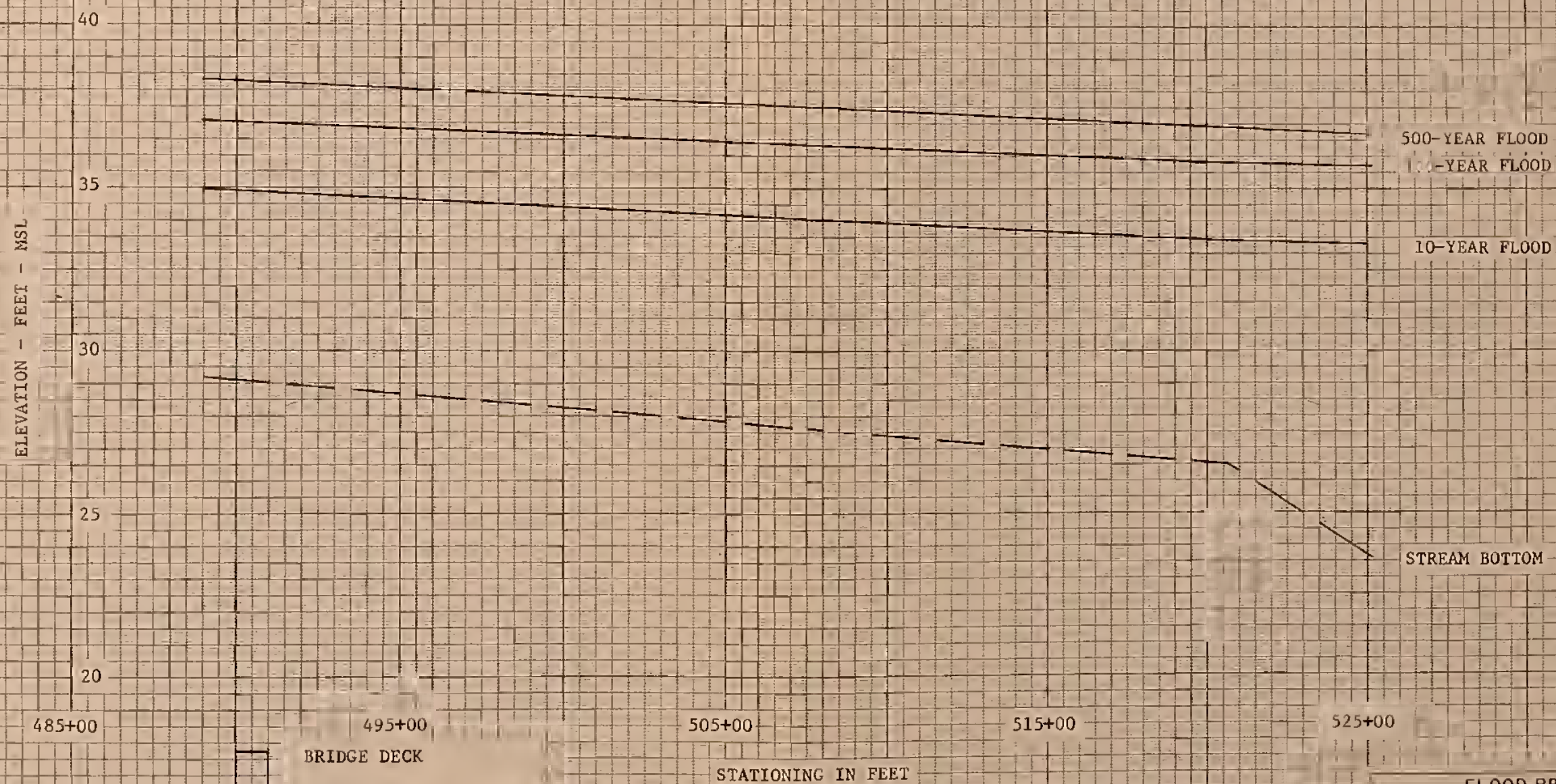
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USDA-SCS WATERSHED NO. 1070









BRIDGE DECK  
LOW POINT IN SECTION  
LOW CHORD

500-YEAR FLOOD  
100-YEAR FLOOD

10-YEAR FLOOD

— STREAM BOTTOM

FLOOD PROFILES  
POCASSET RIVER  
TOWN OF CRANSTON  
PROVIDENCE COUNTY, RHODE ISLAND  
U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

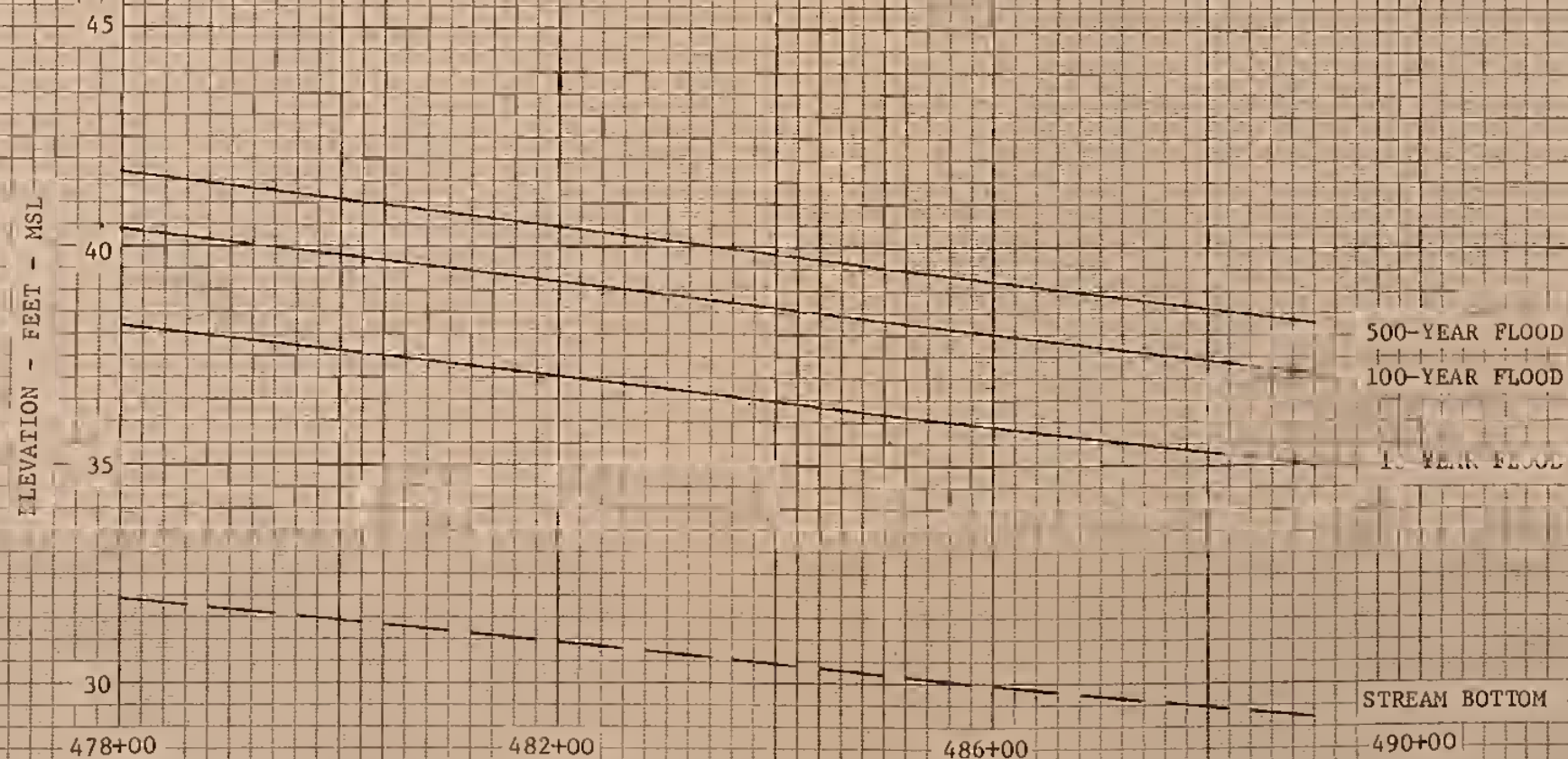
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[ ] BRIDGE DECK  
 ○ LOW POINT IN SECTION  
 [ ] LOW CHORD

STATIONING IN FEET

500-YEAR FLOOD  
 100-YEAR FLOOD  
 10-YEAR FLOOD

STREAM BOTTOM  
 478+00 482+00 486+00 490+00

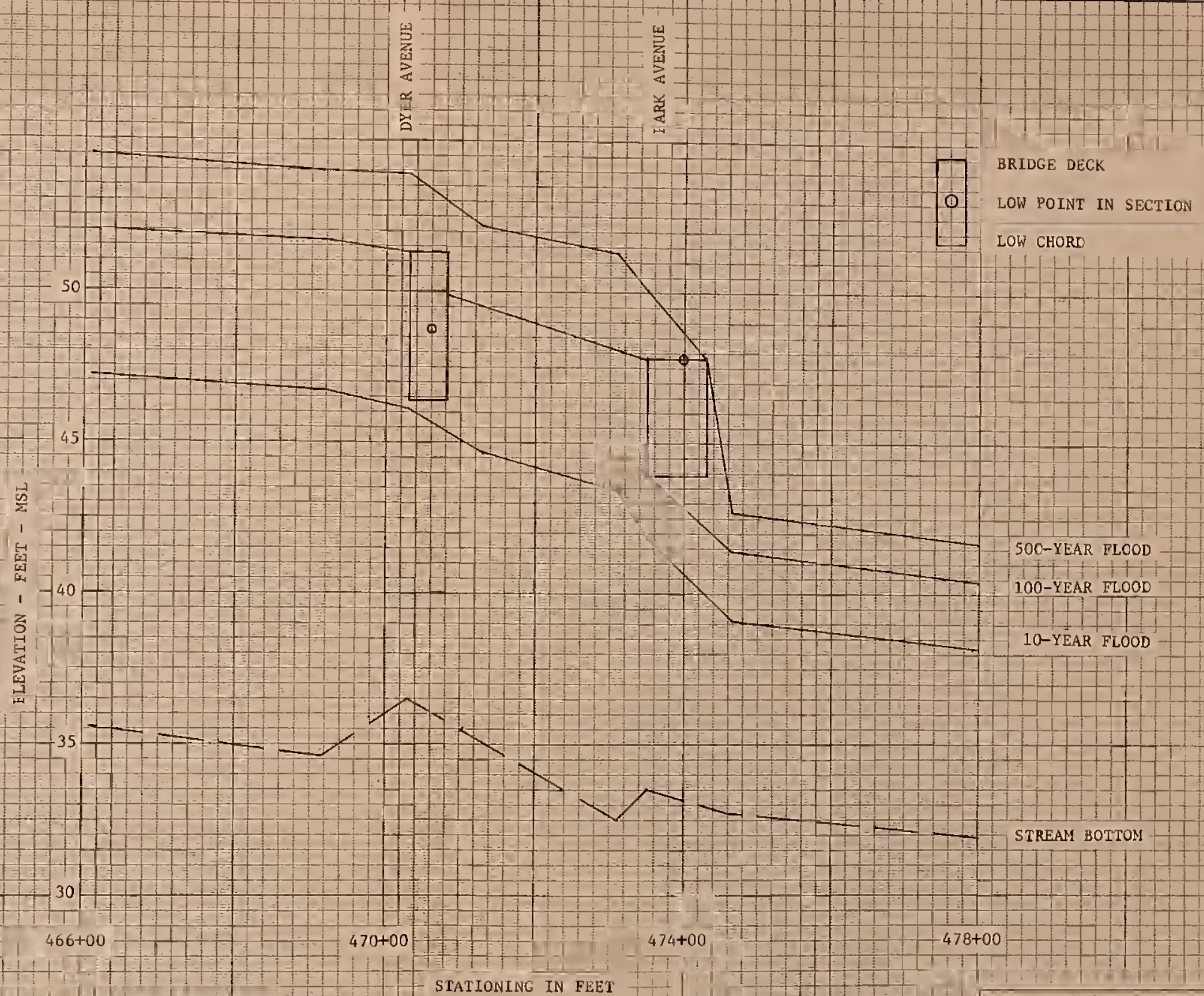
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<b>FLOOD PROFILES</b> POCASSET RIVER TOWN OF CRANSTON PROVIDENCE COUNTY, RHODE ISLAND U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	
Designer _____ Draft _____ Engineer _____ Checker _____	Date _____ Approved By _____ Title _____ Sheet No. 4 of 11









<b>FLOOD PROFILES</b> POCASSET RIVER TOWN OF CRANSTON PROVIDENCE COUNTY, RHODE ISLAND U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	
Date: _____ Drawn by: _____ Checked by: _____ Title: _____ No. 5 of 11	Approved by: _____ Date: _____ Special Instructions: _____ Date: _____ No. 5 of 11

DECEMBER 1974















ELEVATION - FEET - MSL

70

65

60

55

50

45

40

430+00

440+00

450+00

STATIONING IN FEET

DAM  
PRINT WORKS POND

FACTORY BUILDING

WALKWAY BRIDGE

WALKWAY BRIDGE

CRANSTON STREET

BRIDGE DECK

LOW POINT IN SECTION

LOW CHORD

500-YEAR FLOOD

100-YEAR FLOOD

10-YEAR FLOOD

STREAM BOTTOM

**FLOOD PROFILES**  
POCASSET RIVER  
TOWN OF CRANSTON  
PROVIDENCE COUNTY, RHODE ISLAND  
U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

DECEMBER 1974

Date  
Designed By  
Drawn  
Checked  
Scale  
Sheet  
of 11

USDA SCS WATERSHED NO. 7477







ELEVATION - FEET - MSL

DUNEDIN STREET

PRINT WORKS POND DAM

75

70

65

60

55

500-YEAR FLOOD

100-YEAR FLOOD

10-YEAR FLOOD

STREAM BOTTOM

405+00

415+00

425+00

435+00

BRIDGE DECK

LOW POINT IN SECTION

LOW CHORD

STATIONING IN FEET

FLOOD PROFILES

POCASSET RIVER

TOWN OF CRANSTON

PROVIDENCE COUNTY, RHODE ISLAND

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

DECEMBER 1974





ELEVATION - FEET - MSL

80

75

70

65

60

370+00

380+00

390+00

400+00

STATIONING IN FEET

BRIDGE DECK

LOW POINT IN SECTION

LOW CHORD

DUNEDIN STREET

500-YEAR FLOOD

100-YEAR FLOOD

10-YEAR FLOOD

STREAM BOTTOM

FLOOD PROFILES  
POCASSET RIVER

TOWN OF CRANSTON  
PROVIDENCE COUNTY, RHODE ISLAND

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SOIL CONSERVATION SERVICE

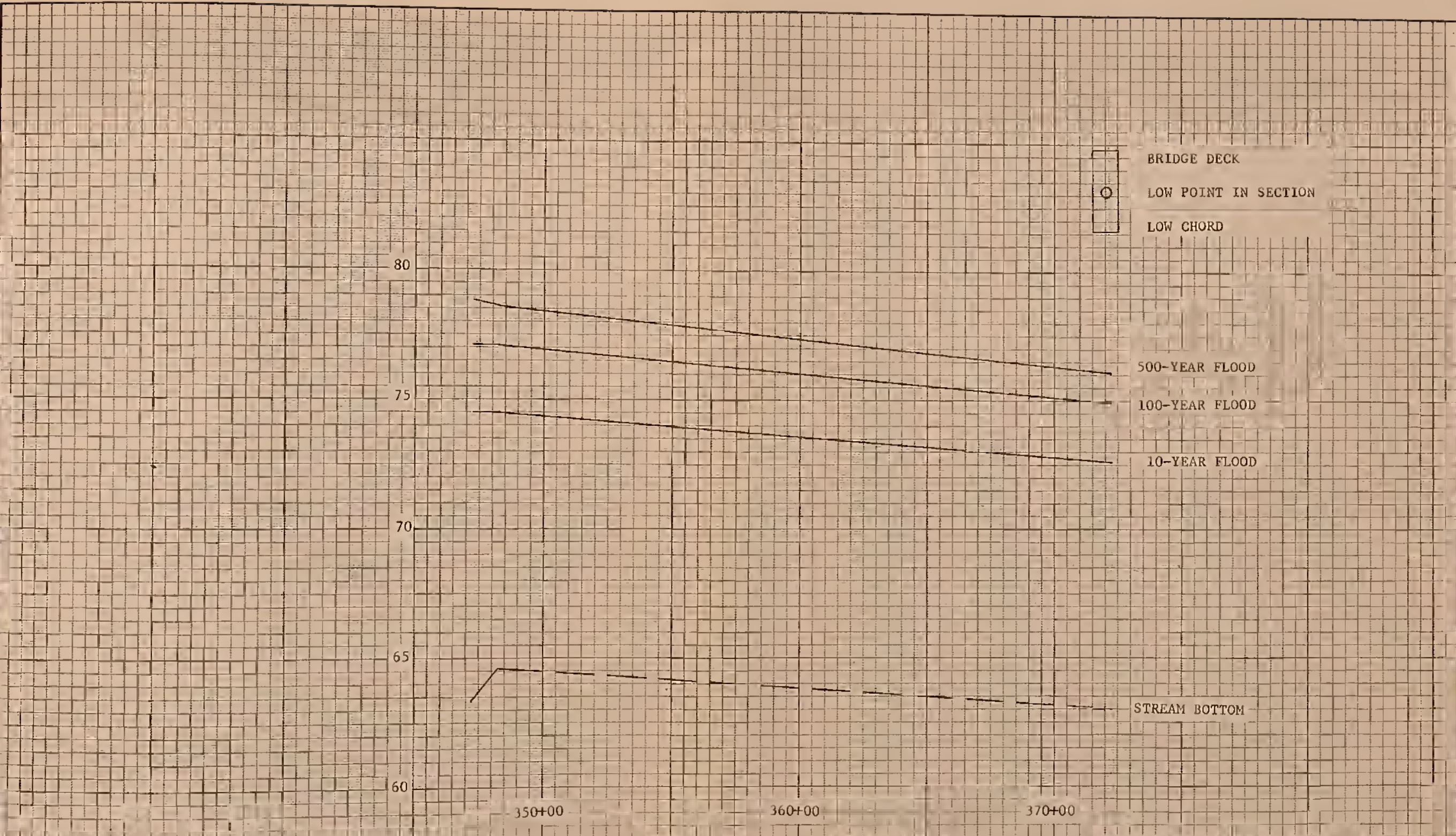
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Checked	Time
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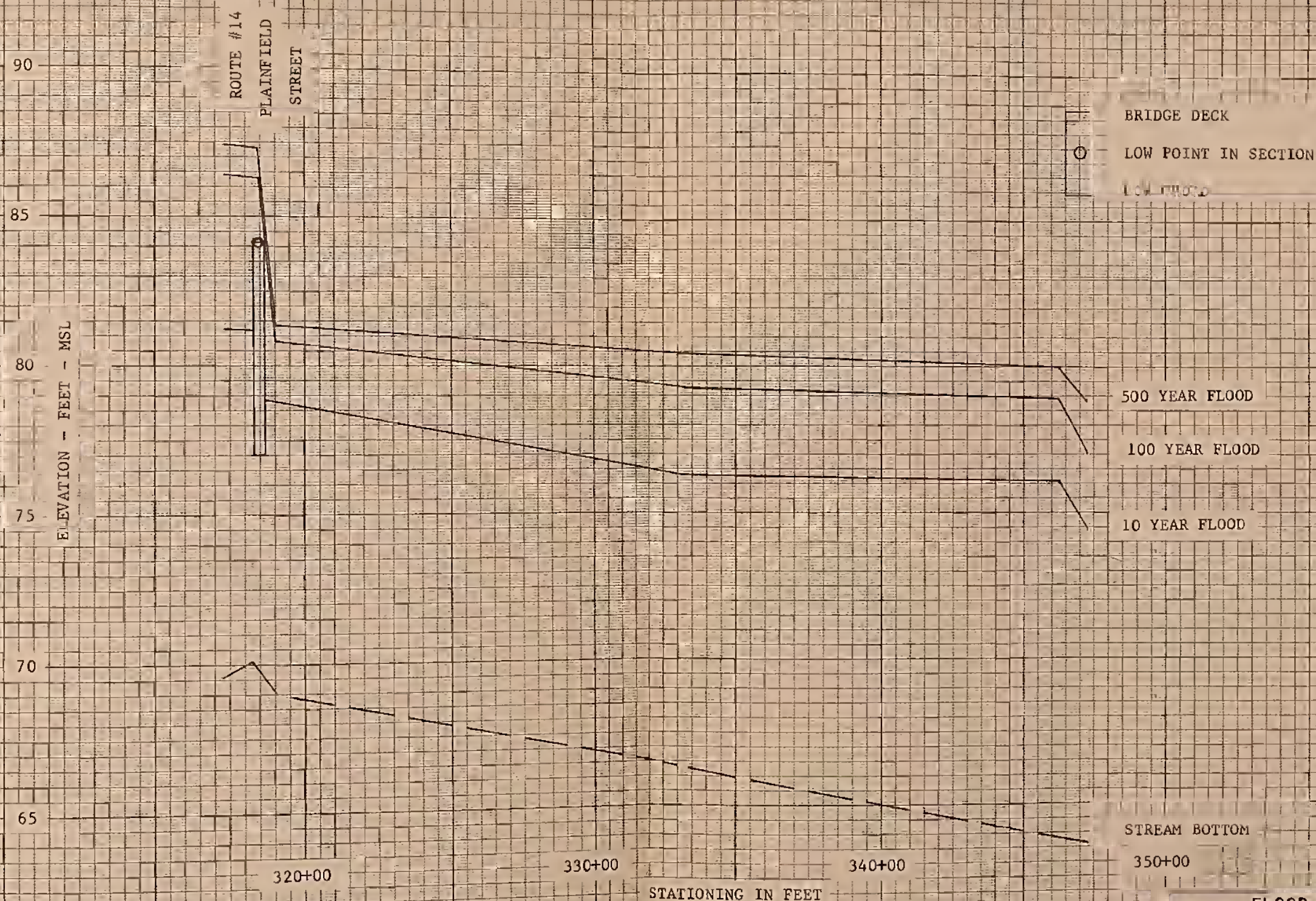
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TOWN OF CRANSTON			
PROVIDENCE COUNTY, RHODE ISLAND			
U. S. DEPARTMENT OF AGRICULTURE			
SOIL CONSERVATION SERVICE			
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**FLOOD PROFILES**  
**POCASSET RIVER**  
 TOWN OF CRANSTON  
 PROVIDENCE COUNTY, RHODE ISLAND  
 U. S. DEPARTMENT OF AGRICULTURE  
 SOIL CONSERVATION SERVICE

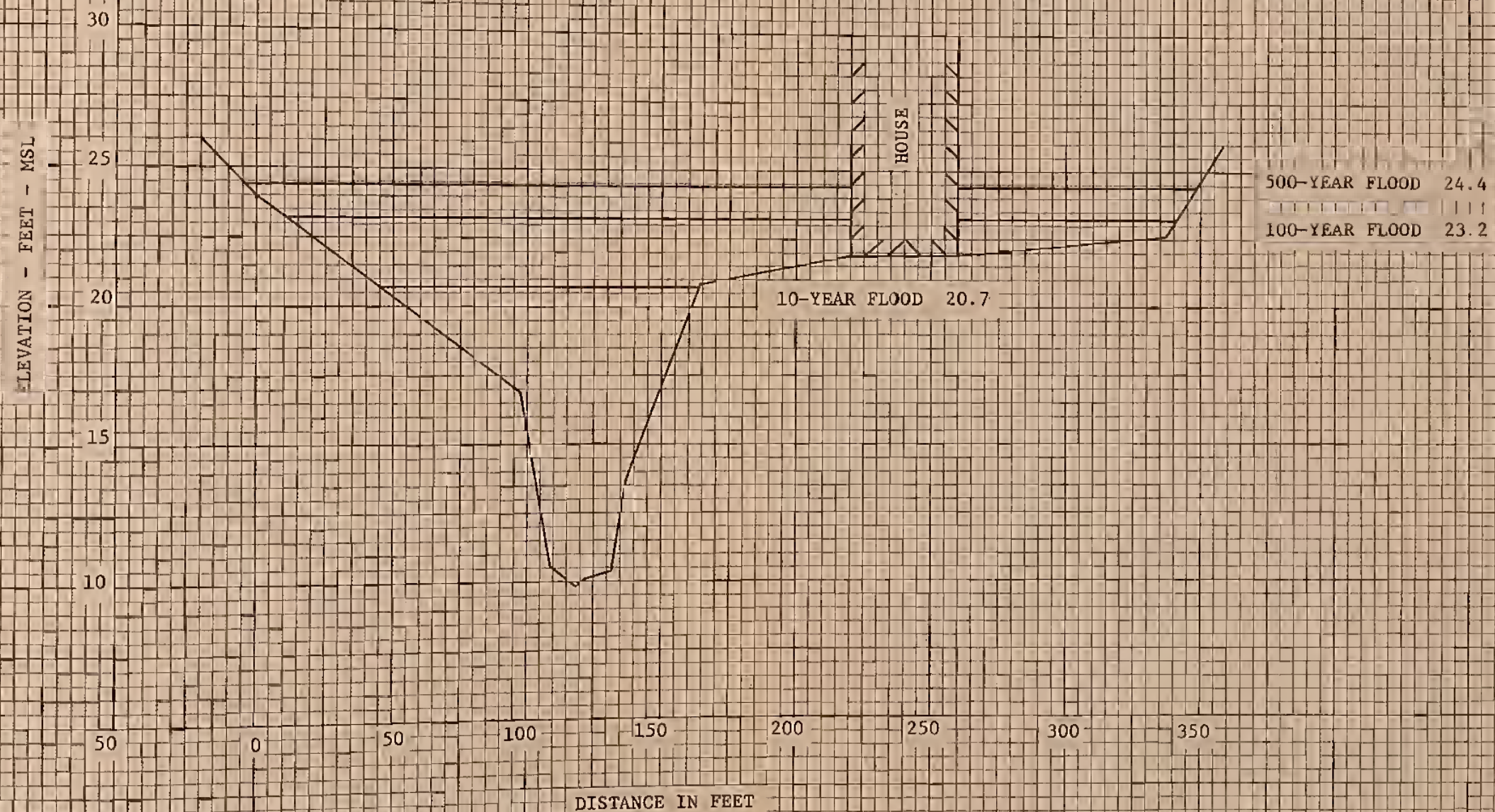
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11	11

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CROSS SECTION NO. 598+46

TYPICAL VALLEY CROSS SECTION  
POCASSET RIVER  
TOWN OF CRANSTON  
PROVIDENCE COUNTY, RHODE ISLAND  
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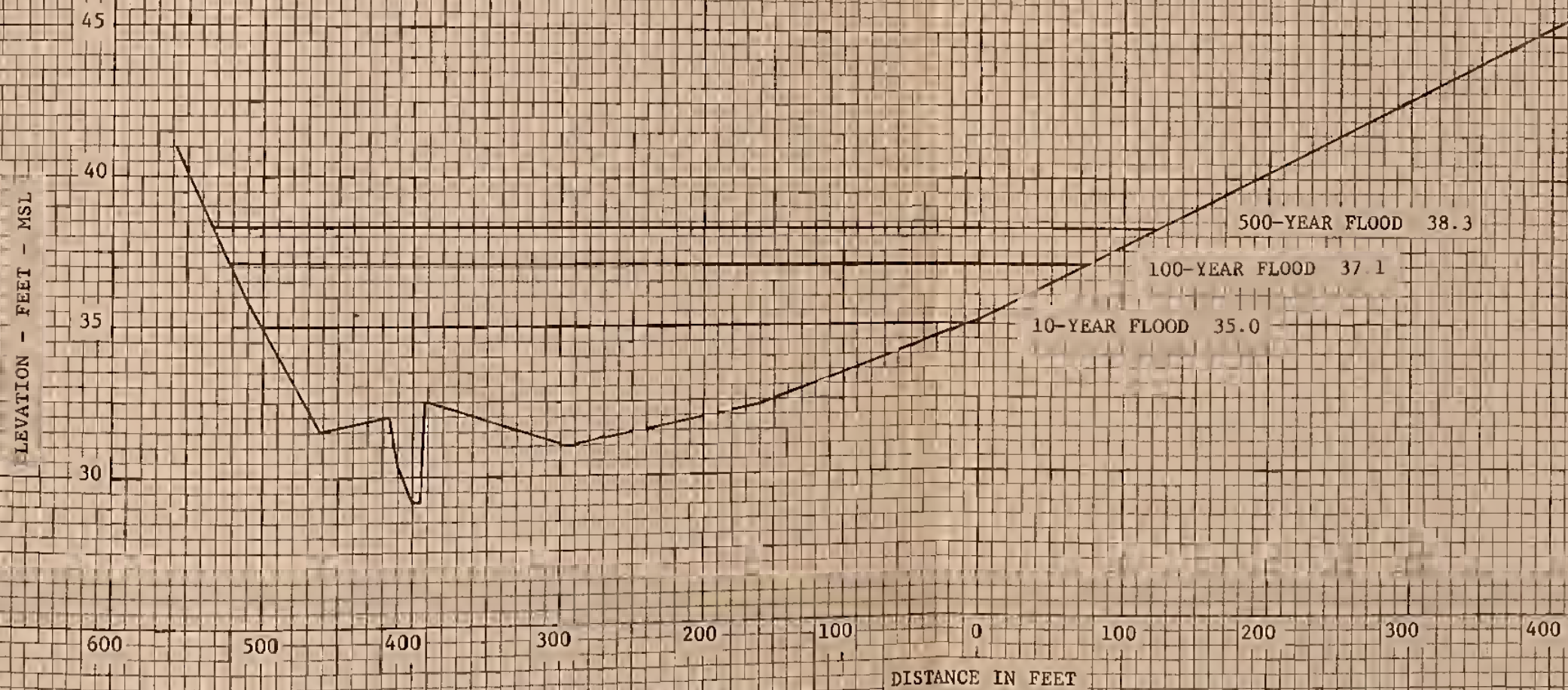
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CROSS SECTION NO. 489+00

TYPICAL VALLEY CROSS SECTION  
POCASSET RIVER  
TOWN OF CRANSTON  
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U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

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Drawn	By	Checked
Plotted	By	Sheet No. 2
Checked	By	of 3

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ELEVATION - FEET - MSL

70  
65  
60  
55  
50  
45  
40

500 400 300 200 100 0 100 200 300

DISTANCE IN FEET

CROSS SECTION NO. 453+55

500-YEAR FLOOD 59.0  
100-YEAR FLOOD 55.1  
10-YEAR FLOOD 50.0

TYPICAL VALLEY CROSS SECTION  
POCASSET RIVER  
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PROVIDENCE COUNTY, RHODE ISLAND  
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